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Ernst, H.
CONCERNING THE TESTING OF DIESEL FUELS.
[1963] [23]p. (3 figs. omitted) 15 refs.
Order from SLA \$2.60 63-14278

Trans. of (ATZ) Automobiltechnische Zeitschrift
(Germany) 1939, v. 42, no. 8, p. 213-221.

DESCRIPTORS: *Fuel oil, Diesel engines, Test
methods, Combustion, Ignition lag, Antiknock.

The basic considerations governing a choice of possible
test methods for diesel fuels are discussed. In evalu-
ating the fuels by engine tests, the processes with
variable compression and with variable ignition lag
were used.

(Materials--Fuels, TT, v. 10, no. 7)

63-14278

I. Ernst, H.

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Crane Installations of Low Dead Weight Made
Safe in Operation by Appropriate Design, by
H. Ernst.

GERMAN, per, Stahl und Eisen, Vol LXXXI, Nov 1961,
pp 1665-1672.

BISI 3127

Sci. - Engr
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Low Weight, by H. Ernst.

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26 Apr 1962, pp 513-517.

BISI 2991

Scl - Engr

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list 157

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TT-65-14998

Field 13C, 14B, 13M

Ernst, H.-J.; Feder, D.
STRUCTURAL DESIGN AND MODEL TESTS OF AN
UNUSUAL PRESTRESSED CONCRETE CROSS-SECTION.
THE 'JAN WILLEM PLATZ' VIADUCT IN DUESSELDORF.
PT. I-II. 16p (figs 1ref omitted) 7refs.
Order from SLA: \$1.60 as TT-65-14998

Trans. of der Bauingenieur (West Germany) v37 n11
p401-8 1962.

MR 699

63-14279

I. Ernst, H.
II. Widmaier, O.

Ernst, H. and Widmaier, O.
UNIFORM TEST PROCEDURE FOR DIESEL AND
OTTO FUELS ON THE BASIS OF IGNITION LAG
MEASUREMENTS. 11 Apr 49 [9]p. (figs. omitted)
11 refs.

Order from SLA \$1.10

63-14279

Trans. of German language article from unidentified
source, n. d.

DESCRIPTORS: *Fuel oil, Ignition lag, Test methods,
Knocking, Combustion, Analysis, Autoignition,
Diesel engines.

According to our present information a relation exists
between ignition tendency and the knock rating of a fuel,
in that the knock rating decreases with rise in ignition
tendency and vice versa. This relationship makes it
possible to develop, on the basis of ignition lag meas-
urements, a single uniform test procedure for diesel
and otto fuels. (Author)

(Materials--Fuels, TT,
v. 10, no. 3)
Office of Technical Services

63-14269

Ernst, Hans] and Gross, W.
ENGINE METHOD FOR THE TESTING OF DIESEL
FUELS [1963] 15p. (figs. omitted) 11 refs.
Order from SLA \$1.60 63-14269

Trans. of German language article from unidentified
source, n.d.

DESCRIPTORS: *Fuel oil, *Ignition lag, Test methods,
*Diesel engines, Measurement.

In order to explain the influence of the various oper-
ating conditions upon the ignition delay, studies were
carried out by means of a specially developed method
of measurement. Test of a fuel by this process
evaluates the fuel in terms of its ignition delay. (Author)

(Materials--Fuels, TT, v. 10, no. 3)

I. Ernst, H.
II. Gross, W.

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Ernst, H[ans]. IGNITION LAG MEASUREMENT AND FUEL EVAL- UATION. 17 June 48, 6p. (figs. omitted). Order from SLA \$1.10 63-14276 Trans. of German language article from unidentified source, n. d. DESCRIPTORS: *Ignition lag, *Fuel oil, Measurement, Test methods, Combustion, Knocking, Combustion chamber gases, Internal combustion engines. (Materials--Fuels, TT, v. 10, no. 3)	63-14276 I. Ernst, H. Office of Technical Services
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63-10993

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IGNITION DELAY AND EVALUATION OF FUELS:
BASIS FOR THE DEVELOPMENT OF A UNIFORM
TEST METHOD FOR DIESEL AND OTTO FUELS
[Zündverzögerung und Bewertung des Kraftstoffs; Grundlagen
zur Entwicklung eines einheitlichen Prüfverfahrens für
Diesel- und Ottokraftstoffe]. 26 Jun 47, 32p. (figs.
omitted) 26 refs.

Order from OTS or SLA \$3.60

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Trans. of [Deutsche Kraftfahrtforschung (Germany)]
1941, no. 63, p. 1-20] (PB-34469).

DESCRIPTORS: *Fuels, *Ignition lag, Test methods,
Fuel oil, Diesel engines, Combustion, Combustion
chamber gases, Pressure, Temperature, Antiknock.

The behavior of fuels upon transformation in the Diesel
engine is at the present time generally evaluated by
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I. Ernst, H.
II. Title: Basis ...
III. PB-34 469

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Observations on the Action of Dilute Hydro-
fluoric Acid on Glass Surfaces, by Boneff,
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NEW ADHESIVE PRODUCT AND SUPPORT MATERIALS
Coated or Impregnated With This Product,
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Molybdenum and Iron-Chromium-Tungsten Alloys,
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OF THE BRONCHUS: METAPLASIA OR ABERRATION?
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Ernst, Rudolf.
MECHANISM OF HEAT TRANSFER ON HEAT
EXCHANGERS IN A FLUIDIZED BED (TURBULENT
FLOW) (Der Mechanismus des Wärmeüberganges an
Wärmeaustauschern in Fließbetten (Wirbelschichten)).
[1961] [32p. (15 figs. omitted) 19 refs.
Order from SLA \$3.60

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Trans. of Chemie Ing[enieur] Techn[ik] (West
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DESCRIPTORS: *Fluidized solids, *Heat transfer,
Turbulent flow, *Heat exchangers, Gases, Pressure.

The connection between heat transfer and movement of
solid particles was investigated for a fluidized bed and
a moving bed. The mechanism of heat transfer in
fluidized beds is this: The contact time of solid
particles on a heated surface determines the heat
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I. Ernst, R.

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Mechanism of Heat Transfer on Heat Exchangers in
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Detection of Resins on White ~~KMM~~ Fabrics,
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7p.
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appl. 23 Apr 51, registered 31 Mar 51.
Another trans. is available from LC or SLA m/\$1.80,
ph/\$1.80 aa 60-16889 [1960] [9]p.

DESCRIPTORS: Materials, *Moisture, *Powders,
Particle size, Water supplies, Control systems.

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Calculation of the Sound Field of an AircREW,
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Scientific - Aeronautics, physics

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Lifetime in PbS Films at 10^{10} cps, by V. G.
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Concomitant Decarboxylation During Autoxidation
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